



 1: AP001859. Oryza sativa geno...[gi:7630233] [Related Sequences, Protein, Taxonomy, LinkOut](#)

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FEATURES             Location/Qualifiers
     source           1..150594
                     /organism="Oryza sativa"
                     /cultivar="Nipponbare"
                     /db_xref="taxon:4530"
                     /chromosome="1"
                     /clone="P0485D09"
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                     /note="hypothetical protein"
                     /codon start=1

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"

CDS
complement(9235..9582)
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/db_xref="GI:7630235"
/translation="MTARFAEVGERREAPAGRSMEEGGGGAHRRRGASPAAAATRIGG
ARRNFGREGKMRRGVDGYLAIFPGWFLQKGRGREGARGCEMDGGEMARVGSARSGPSV
STSAAFVSRRFGNF"

CDS
join(10735..10850,10933..10987,11596..11653,12285..12379,
12471..12574,12958..13086,13493..15302)
/note="Similar to Arabidopsis thaliana chromosome 4, BAC
clone F4D11; putative myb-protein. (AL022537)"
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/db_xref="GI:7630236"
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GPWSKEEDEIIVQMVNKLGPKKWSTIAQALPGRIGKQCRERWYNHNLNPGINKEAWTQE
EEITLIHAHRMYGNKWAEELTKFLPGRTDNSIKNHWNSSVKKKVNSYMSSGLLTQVSC
PLNEYSANCNSSPAMTQQNSEDSGCFVREVENSSGCSQSSIAKVSQVHDHDTTVPLG
CDLQVNANFDKNEAHDSSSMGPQACYTSAEAVASALPAVHCHVSSSNLDPDQHLQED
FAQGLNLDMTIDEMPTVPSFADNQTVCSINHERSLEPYDVAMEVPLSMLSSDSGAEQ
KLHFMSEADFNSPNCCLKSELWQDISLQGLLSGPDADVEADSISSNHQSDVYSSEADTH
FLAPPYMPQTSNSSSVMLADDQSPQMSVPPSLICSNAMTDDAPFDNRPRKEMPLSQ
AEVVTQSSSSSGDAEMFANPGCSNDRHVPSSMTMESIPECGDQQVTNAEEPEASLEKEP
SLTQSVTAPDEQDKGALFYEPFRPFLDVPFVSCDLVTSGLDQEFSPGIRQLMHSTM
NVCTPMRLWGSPTHDESTGVLLKSAKSFICTPSILKKRHRDLLSPIPDKRIEKKYGT
EKDRGVSDTSSTGIQTSCINATKDDALITTVLRIERSASSKSLEKKLVFSDENKENLG
YTTEQTKDQGSAGNDEHMDEQTTGERSSATNVATNDDLSGNLVSTSSF"

CDS
complement(join(18608..18823,19905..20031,20072..20220,
20774..21113,21407..21738,21975..22508))
/note="ESTs AU082761(S5084),D42006(S5084) correspond to a
region of the predicted gene.
Similar to Caenorhabditis elegans chromosome 3, cosmid
C17G10; alcohol dehydrogenase/ribitol dehydrogenase.
(U28739)"
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/db_xref="GI:7630237"
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KLKNKSDDELHQLKQFDKAWNVYGVNLNLQALVEKSMIAQILEREKEGLEQFTATDGY
DYQGGSNVLKMLGYYSMIGLLRIHCLLDYRTGLKCLAPIDLNQGGVYTTIVIGSHISA
IYHYGFANLMMRRYAEAIREFNKKILLYILKYKQYHQKSPQYDQILKKNEQMYAFLAVC
LSLCPQHNLIDENVSTQLKEKYNDKMTKMQRFEETYAAYDELFSYACPKFITPSPPA
LDQPLTNYNQDAYRLQLKFLYEVKQQQLLSGIRSYLKLYSTITIAKLAQYMEVDEAT
LRAMKNLSQYLYRSILMTYKHKMHAVDNNGKIVSSADFDYIKEICSSIRTPKLTSKN
LAHIHIQVGKTVRKPSLSFSFSYFFFGIEIGNSGYENGIEYYRNRKWSENEPAQIR"
join(23045..23145,24592..24670,25118..25216,25302..25415,
25608..25750,26364..26445,27073..27158,27527..27760,
29332..29917)
/note="Similar to Arabidopsis thaliana chromosome 2 BAC
T19C21; unknown protein. (AC004683)"
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/db_xref="GI:7630238"
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KRIGHKNPKVQILALTLLTETAIKNCGDI FHMHVAERDVLHEMVKIVKKKSDQNVKEKV
LTMIDTWQEAFFGGPRARYPQYYAAYHDLVRAGAAF PKRSDRPAPLFNGQSPAGNMRS

CDS

PDQQDEAESSAGNDFFALSMSEIQNARGIMDVLAEMLNALDPGNREGLRQEVIVELVD
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ALVDTEDSMNQDSKKEQALVDIEDPTTQETNKEPSQSASVQSPFEQLALPAPPVSNQS
ATPAPKSDLGVDLLSWDDNPSTTENSALVPVTDPVVDSTPSQNALAIVDIFSQNNNTT
NNIAKPADPFGVNSSSTLPGSQPYNAPTQHPLQAQQQPPQVGLYPNGGAVNPGTSYPT
SSGWNQIANNATPPAQQTVNYGIAIYLYIYISQPFSTYIPIIGCQNHACPCCLCSV"
30166..30675

/note="ESTs AU031545(E61825), AU031546(E61825) correspond
to a region of the predicted gene.

hypothetical protein"

/codon_start=1

/protein_id="BAA94772.1"

/db_xref="GI:7630239"

/translation="MYNNQQPGAMQPSQPAVTQMQSGFANQFGSMPPHSMPPGMQFPGM
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PTYAGMNDLSQKMYGLSMQDSSYMGMNSSPYSTTPSSSSSMGQPSKPEDKLFGLLS
IAKTKQNKKA"

CDS

complement(join(34629..34795,36831..36867,38803..38895,
41780..41830))

/note="hypothetical protein"

/codon_start=1

/protein_id="BAA94773.1"

/db_xref="GI:7630240"

/translation="MTVVRCTTRQRLLEGERIQCDIRGKKILGSKGPFDSQNRKNTGI
EIEVGLLDACVIVYTVEKPENERRIKKHGRLRGLSRLCDRLGPKLVWDPSPTKVVT
PYVQFPRGHTLFRHG"

CDS

join(46367..46423,47537..47769,48031..48153,50082..50299,
51762..51864,52091..52204,52433..52532,52784..53004,
54084..54514,54601..55709,56020..57468)

/note="hypothetical protein"

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/protein_id="BAA94774.1"

/db_xref="GI:7630241"

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DGMFCVRAVLHRMGSGNGRLALLTCSLTKANCLLAMKLFLEKEKQTFELGNIEEAA
SSGERSTARRVDRAPPLRRGCRSKRKPSPSCAPLSGLELLASMGTAKALIFHVAEE
KKIPSFAGILAATFWGNLFLAILPARISGALIFHELIEVDIYCACLVDLSLLVV
VIDMEIVAVDQEGARVVGTCNMLARGGTGAVAPVLELTATPRQDAAAEAGVDE
PAQHQCCEHFSIRGYVALLQKKDKPKFCSLSRIFHDQKKCDEHKASSSPFSVAK
FRRWDCSKCLDKLKTSDNGTAPRTLPAKQNGTSDGCSITFVRSTFVPASVGSQK
VSPSTQSSQCKNADRSTLPKSVQE GNDSCKNAPSGKNGAAEANTDSPMKDLQGP
AQNYDVAANVSEDNTSV DVGALPEVPQITWHIEVNGADQPPSTPKLSEVVLKR
NEDENGKTEETLVAEQCNLT KDPNPMMSGKERDQVAEQCNLT KDPKPVSGQK
CEQICNEPCEEVVLKRSSKSKRKTDKKLMKKQHQHKKRTAQADVSDAKLCRRK
PKKVRLLEIINANQVEDSRSEVHRENAADPCEDDRSTIPVMEVSM DIPVSNHT
VGEDGLKSSKNKTKRKYSDVVDGSSLMNWLNGKKKRTGSHVHTVAHPAGNLSN
KKVPTASTQHDDENDTENG LDTNMHKTDVCQHVEISTQRCSK GKTAGLSKGK
THSAASTKYGGESTRNGQNIHVLSAEDQCCMETENSVLSHSAKVSPA EHDIQIM
SDLHEQSLPKKKKKQKLEVTREKQTMIDDI PMDIVE LLAKNQHERQLMTETDC
SDINRIQSKTTADDDCVIVA AKDGSDYASSVFD TNSQQKSLASQSTQKELQGH
LALT TQESPHPQNFQSTQEQQTHLRMEEMVTIAASSPLFSHHDDQYIAEAPTE
HWGRKDAKKL TWEQFKATTRNSPAATCGAQFRPGIQA VDLTSTHVMGSSSNYAS
RQPVIAPLDRYAERAVNQVHARNFPSTIATMEASKLCDRRNAGQVVLYPKESMP
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GKIPLTFEDLSRHQLHDLHRPLRPHPRVGVLGSLLOKEIANWSENCGTQSGYK
LGVSTGITSHQMN RKEHFEALNSGMFSAKWNA LQLGSVSSSADFLSARNSIAQ
SWTRGKGKMHPLDRFVRQD ICITNKNPADFTTISND NEYMDYR"

CDS

complement(join(58634..58667,58796..58902,59018..59083,
59368..59432,59585..59648,60333..60442,60620..60707,
60835..60945))

/note="ESTs AU082698(R0665), D23963(R0665) correspond to a
region of the predicted gene.

Similar to Arabidopsis thaliana rac GTP binding protein
Arac7. (AF079484)"

CDS
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DNFSANVSVDGSVNLGLWDTAGQEDYSRLRPLSYRGADVFLSFLISRASYENVQK
KWMPELRRFAPGVPVVLVGTKLDLREDRAYLADHPASSIITTEQGEELRKLI GAVAYI
ECSSKTQRNIKAVFDTAIKVVLQPPRHKDVTRKKLQSSSNRPVRRYFCGSACFA"
join(67330..67530,67676..67816,69073..69234)
/note="hypothetical protein"
/codon_start=1
/protein_id="BAA94776.1"
/db_xref="GI:7630243"
/translation="MGGSAAAAPPAPAWMAAGARRWLEEAGVAFDGSDDRAFNALPLA
GARVSLAEAGRAVCSLRVTAELTDAEGNWHPGAIAAAADDVCAAAIMSVEGIKVS VH
YDISYFSPAHLHEEVELDGRVVEQKGKMTAVTVEIRKDSGELVAIGRQWMSTTRPKK
DQASSKL"
join(69755..69967,70096..70236,70344..70514)
/note="Similar to Arabidopsis thaliana chromosome 1 BAC
F19P19; unknown protein (AC000104)"
/codon_start=1
/protein_id="BAA94777.1"
/db_xref="GI:7630244"
/translation="MDGESPAAAAAALRLAAVARRWLENPRDSLARSREEGCGDAFNT
VVMGFRVSLAEPGRVLCVFCVPAAVADADGRWHAGAMAAVDNLC AAVVYTADGVHR
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RARPEKNGESRSKL"
CDS
complement(join(71003..71020,71150..71404,72000..72263,
72339..72458,72784..72900,72983..73107,73259..73568,
73950..74210))
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/translation="MVCQVEPRKISMYREEAVDSL IQCLKNSDYPRSQLAAETIMNL
SGKFSSSGRPLSRSSLLKLARVKERHRPSHDLSISR GAGEDEMEEEEKAAAEWERKAAY
ALVSHEFGLVFEALSGCLAAAKNGELFTASLVSAAWLVRMLPLLPDTGVLGAARVCLL
RQLVLVLRSGKHGSDRALAMVALRSFMNDREGMHEITTYIKDVLRITLRELKSSGLAF
EMLKLLSDGQESSIDMWNHKELNHADCSSNGEVTSIAYFKGYIFSGHSDGTLKVWQLR
DALRCVEVHDAKDPVQSLAVAAAMACFAPQGGGVKVL SWNNGGGA KVLNASKVVR SMA
LVHGKLF CGCNDGGVQEIDLASGTIGVIQQGSKRIIGKASPIYSLHLHGDL LYTGSTS
LDGASVKIWSSSNYSLVGTIPSSVEVRS LVVSSDLVYLGS RNVVEIWSREKLTRIGA
LQAGGGGGSGRVQCMAVDADGDVIVVGTSDGRIQAWGLT"
CDS
complement(join(74770..76003,76102..76211,76416..76685,
76778..77611))
/note="Similar to Arabidopsis thaliana chromosome 1 BAC
F19G10; hypothetical protein. (AF000657)"
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/db_xref="GI:7630246"
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AAAAAEAASHRGEDGSVETAAMSAMRVLSLMSGAAQAE MRDLEREYEKVL DANCIA YA
LYLKKILETGDAKETYSPPPPPELVFGVGGDDQDGDVDDETTAETDET VSSQNDVR
YNPIWADADEAADLYPRQSGKGWRELMRPPSLYPQRPVPHLIVQQQQSSPSPTGRGS
PVARLRAGHSPATPSSDVSMEDSPSSSELLAGREEKHTASPLSRPAGRARPRGEEDDD
DDVAAMLSPEHASSVMGGDGGGDVARRPVVATPKDFVCPI TSQVFDDPVTLETGQTYE
RRAIQEWLDRGNATCPI TRHRLHGAHL PSTNYVLKR LIAAWRDQNP AASSSAPT PPPP
ATTTMDS PAAAAPFKISSPSPDATVSQASAPSPTS VIAQASLDSAVGELRAAVSCLCT
SEELAD SERSVLRIERLWREAAGAEHVLAALAKPAVNVGFVEILFNSVSAQVLQVAV
FLLAELASRDDAVVQTLTRVDSVDCLVALFKKGLVEAVSLIHL LSPSPEQLVEMDMA
DALVATIRRGGGDDGGAVVKMCKPKAASVILLSQILVEGGRDSSSPAVAKSALVSE
RFIRSVAASLEAEQVEERVA AVRILLRCVAEDGHCRSSIVENSALAAVLDAFHVVGDA
DKFDIVRLLSELLKLR"
CDS
complement(join(79131..79508,80067..80462,81617..81838))

/note="Similar to Populus balsamifera subsp. trichocarpa X Populus deltoides vegetative storage protein. (L20233)"
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/db_xref="GI:7630247"
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SCPTPTRWIPSSTPQASPLPLSPPTSTSKLNAGLTTQLLLSLFRVKGIVHWGIAGNA
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PSPNELNSIWFQPEEIFPVSGKPEQRQHAFFVWPVSSRYFSLAEKLEGMELPACVNATT
CLPRAPRVTRVRRGCSANVFLDNAAYRQFLRAKFGCTPVEMESAVALVAHQHAVPFL
TIRSLSDLAGGGSSLGNEAGEFLAIAAQNADVMLNFVPLLADGGAHDAVAADM"
complement(join(84055..84182,88221..88406,88495..88786,
88796..88989,89149..89251,89456..89578))
/note="hypothetical protein"
/codon_start=1
/protein_id="BAA94781.1"
/db_xref="GI:7630248"
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RKRDITADRYKNRVIGYKTPVVLFFYYFRVKRGQLTAWRDHGAASGQINDGRLTAMPM
WRGVTERRRSSAGQRHQAOQGEAPAOQGGQAAALVGLSSHLERRLLDRKRSPRGRVSRRA
EAKRPPVSNLSMLVLDDEPVVSRIFFVEARFHNRIKLTILRPAPLLGHLPMHTRRLSS
SATSPPWTTPTLESHRGGGLVEMRCIILANVESLSHPLPLNHISYIYTHDGKIRFLDLC
KYYILFKMYDIIFKMKNDFLWDEVVHMRQTSIYIIKTTLKGGTTFAVKARNSHINRR
KRKEESK"
join(90754..90812,90875..91037,91063..91118,92712..92801,
94143..94347,95119..95239,96404..96559,96598..96670,
96957..97029,97203..97309,97633..97721,97864..97980,
98080..98221,101760..101908,102148..102416)
/note="hypothetical protein"
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SADGRTASSTRASSSPRPWRALGLAPLKVFLLVARLRDLPRVWSDGCVLREVGFK
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YGFESDGCNSFSHFVDVQDFSDHYAKNSPGKKLASQSGFNHAESIYVRVYEDRIDLLR
AAIVGPAETPYHDVVAEPPLSISLVVPGVLAITRIWHLMEWRAIRRGRCQGRGRRWWG
GDGRGEDDPVYATASLGESEGGAVKMGAGGNPTAFREINISSGPKPNWCVGWLRID
ACAHPPFFDELREPNAHLPWQMVVHSLCSTSSMNHFSKDSVPEKYNVNYLAMEKCVL
LLLVLTLPYSSVAAPCFCLLFHHVNANPNPNRNEPSSFTSWSTPWKDCKEKHPNVKQV
SCGAFGLLCCVNCYNVCSLDLVDLVTSASPCMLLLIYSITNFSLRFLDFERFFMHRFF
KYHCHARLGLRGELVKEGRRRLHLDGSSFLLRSSSRSEGRSEGIAADDRCRDGRDSE
DQPFIACTRSCSAWHPERSELLQLPLGLDLRRGLGLRCGGVVASSPWRRRRRLQRF"
complement(join(103558..107442,107973..108020))
/note="Similar to Zea mays retrotransposon Cinfu-1.
(AF049110)
internal stop
codons:106918..106920,106609..106611,106490..106492,
106304..106306,106238..106240,104767..104769,
104776..104778,104098..104100
probably inactive because stop codons and frameshift
positions are included in CDS"
/codon_start=1
/pseudo
104135^104136
/note="one bp frameshift deletions"
104647^104648
/note="one bp frameshift deletions"
105606^105607
/note="one bp frameshift deletions"
105961^105962
/note="one bp frameshift deletions"
106508..106509
/note="two bp frameshift insertion"
complement(join(110511..110711,111391..111501,

112138..112191))
/note="hypothetical protein"
/codon_start=1
/protein_id="BAA94783.1"
/db_xref="GI:7630250"
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DGLFPEFPAGQDAEKDGKKQQAkkDDDLRSRGLCLVPVSCMPHLAADNDVVVGSDFWA
AAGGGGGGGAPPLAGMNLr"
CDS complement(join(113867..114067,114105..114230,
114243..114368,114680..114739,116575..116640,
117588..117886,118341..118586,122081..122277,
122894..122951,124462..124534,124642..124749))
/note="hypothetical protein"
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QAAASSPRSCVTTSGLGSSMMDFSNTAAVAPAAEPELTRKHHAGQSDNSSEVRKERLG
DRITALHQIVSPFGKALSYPYLGQCCSANPMQQQTVKPPAQPIHTWRWPVCMSAAAHd
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PGRAVACAEAVQLRASHRCCSSSLAAARAPAATCRRAPPTRRRLARASPAHRRATATP
DYPRLKTRCRA"
CDS join(126390..126491,127117..127242)
/note="hypothetical protein"
/codon_start=1
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/db_xref="GI:7630252"
/translation="MTIFRYCYCEKVVMLLHDDCYVTAKFLRDVNNQVISISTIGDGR
PFENTCKIRLIMFISRPPIVHRSVLAGPHEQP"
CDS complement(join(128094..128231,129853..129913,
129941..130079,130272..130387,131275..131375))
/note="hypothetical protein"
/codon_start=1
/protein_id="BAA94786.1"
/db_xref="GI:7630253"
/translation="MHTIRCISAGALVLMVNLNLKEELYVVAGSNQFFNSQHLSLP
HLYLLSSPHTPPSLSNSLPVDRVAAAAGGHPTVAAVLHPEAGGGRSIAEVVARGVWRWR
EEAAAAAI PRVDLAADGFFSRADDISTRTRKTDFSVRMDGISSTGRSEQIELAAPSS
APASELGSHPSRRHRRHDFGTEPA"
CDS join(133369..133726,134238..134605)
/note="hypothetical protein"
/codon_start=1
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/translation="MGTEEEKKHQQSRSSRRKDVtGKGSRCEVASKASEDGRVQKRH
KQGYTRTTLPSPFLLYVLDRLTLQPDASLAAAFHPCLPACTRSSARSSSELIARCCCAC
GFGGVGQVGEYERCHSVPGGGLGLGDTNPPTRTLAMVGTSSGNGLSNGDDNYGSSIFS
LKSPLAWTQPPPSLRTGSSTMRRCDGIDLPPGDPTTDRSTATIGVWRGSARGGGGARR
GNDSLDDDELLGLGDGATADERR"
CDS join(135478..135487,135591..135979)
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/db_xref="GI:7630255"
/translation="MCTSAGKGSSSQASDPSARRVLRTYITCRPAGRSIDAAPCCTTR
DVPRAYGYERPSPAMEHTLSLKKSAKYYYGKRFFMAYVTLKFSLTAVCETVGNVKKRV
WGYGPPAKTDLAKMLQFLLAHFKTPLAKI"
CDS complement(join(139307..139804,140391..140475,
141849..141980,142368..142447))
/note="hypothetical protein"
/codon_start=1

CDS

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SASIKVNLRLDVTHYNDGQMYVQIRSSNRDDTPRIYQLKFSGDRSTSVYSNCDQKPD  
ITHHELSIPDELPPSTQSRVLSYVAYAWQPSQHFLFLKDAGAHLSYTLSSLPPLALS  
LSLSRRGHSAATGRRRRRAGHGGRGGGGGVGRAGGGEGRRGGGAGHGCGVDGGPSMC  
PPRDGRSLRPRRPAMCPACTTTALAATPPYRGALAREKEENEQK"  
join(143334..143343,143510..143915,144690..144922,  
145776..145872,145993..146054,146935..146972)  
/note="ESTs AU083004 (E60493), AU030968 (E60493),  
D23864 (R0457) correspond to a region of the predicted  
gene.  
Similar to Glycine max GH1 protein (AF016633)"  
/codon_start=1  
/protein_id="BAA94790.1"  
/db_xref="GI:7630257"  
/translation="MYTGIQTRRIPVHVLPLPMSPPLELDYIGLSPPPPPPSSSSAAA  
ARADDVDLKGTELRLGLPGSESPDRRPAIAAAAAATATTLELLPAKGAKRVPDEAAL  
TPPTAAAGKGKAAREGEEVGAEEDDKVAAPPQPAKAQVVGWPPPIRSYRKNMTATNQ  
IKSNKEDVDAKQGQGLYVKVSMDGAPYLRKVDLKYKNYKDMSLGLEKMFIFSTGK  
EGAENQKDG EYVLTYEDKDG DWMLVGDVPWEMFTDSCRRLRIMKGS DAIGLAPRAGEK  
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